

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/045,170A

DATE: 04/02/2002 TIME: 13:47:22

Input Set : A:\EP.txt

Output Set: N:\CRF3\04022002\J045170A.raw

```
3 <110> APPLICANT: Qiu, Yongchang
             Wang, Jack
             Hewick, Rodney
     7 <120> TITLE OF INVENTION: ACID-LABILE ISOTOPE-CODED EXTRACTANT (ALICE) AND ITS USE IN
QUANTITATIVE
            MASS SPECTROMETRIC ANALYSIS OF PROTEIN MIXTURES
     10 <130> FILE REFERENCE: GI5412AUSA
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/045,170A
                                                                  RECEIVED TO 1700
C--> 12 <141> CURRENT FILING DATE: 2001-10-22
     12 <150> PRIOR APPLICATION NUMBER: 60/242643
     13 <151> PRIOR FILING DATE: 2000-10-23
     15 <160> NUMBER OF SEQ ID NOS: 16
     17 <170> SOFTWARE: PatentIn version 3.1
     19 <210> SEQ ID NO: 1
     20 <211> LENGTH: 604
     21 <212> TYPE: PRT
     22 <213> ORGANISM: Bovine Serum Albumin
     24 <400> SEQUENCE: 1
     26 Met Lys Trp Val Thr Phe Ile Ser Leu Leu Leu Phe Ser Ser Ala
     30 Thr Tyr Ser Arg Gly Val Phe Arg Arg Asp Thr His Lys Ser Glu Ile
                                        25
     34 Ala His Arg Phe Lys Asp Leu Gly Glu Glu His Phe Lys Gly Leu Val
                                    40
     38 Leu Ile Ala Phe Ser Gln Tyr Leu Gln Gln Cys Pro Phe Asp Glu His
                               55
     42 Val Lys Leu Val Asn Glu Leu Thr Glu Phe Ala Lys Thr Cys Val Ala
                                                75
                            70
     46 Asp Glu Ser His Ala Gly Cys Glu Lys Ser Leu His Thr Leu Phe Gly
     50 Asp Glu Leu Cys Lys Val Ala Ser Leu Arg Glu Thr Tyr Gly Asp Met
                                        105
                    100
     54 Ala Asp Cys Cys Glu Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu
                                    120
     58 Ser His Lys Asp Asp Ser Pro Asp Leu Pro Lys Leu Lys Pro Asp Pro
                                135
     62 Asn Thr Leu Cys Asp Glu Phe Lys Ala Asp Glu Lys Lys Phe Trp Gly
                                                155
                            150
     66 Lys Tyr Leu Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro
```

170

70 Glu Leu Leu Tyr Tyr Ala Asn Lys Tyr Asn Gly Val Phe Gln Glu Cys

74 Cys Gln Ala Glu Asp Lys Gly Ala Cys Leu Leu Pro Lys Ile Glu Thr 200

185

75

165

180

RAW SEQUENCE LISTING DATE: 04/02/2002 PATENT APPLICATION: US/10/045,170A TIME: 13:47:22

Input Set : A:\EP.txt

Output Set: N:\CRF3\04022002\J045170A.raw

78 Met Arg Glu Lys Val Leu Thr Ser Ser Ala Arg Gln Arg Leu Arg Cys 215 82 Ala Ser Ile Gln Lys Phe Gly Glu Arg Ala Leu Lys Ala Trp Ser Val 230 235 86 Ala Arg Leu Ser Gln Lys Phe Pro Lys Ala Glu Phe Val Glu Val Thr 245 250 90 Lys Leu Val Thr Asp Leu Thr Lys Val His Lys Glu Cys Cys His Gly 265 260 94 Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile 95 275 280 98 Cys Lys Asn Gln Asp Thr Ile Ser Ser Lys Leu Lys Glu Cys Cys Asp 295 300 102 Lys Pro Leu Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Lys Asp 310 315 106 Ala Ile Pro Glu Asn Leu Pro Pro Leu Thr Ala Asp Phe Ala Glu Asp 330 325 110 Lys Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Ala Phe Leu Gly Ser 111 340 345 114 Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Glu Tyr Ala Val Ser Val 355 360 115 118 Leu Leu Arg Leu Ala Lys Glu Tyr Glu Ala Thr Leu Glu Glu Cys Cys 375 380 122 Ala Lys Asp Asp Pro His Ala Cys Tyr Ser Thr Val Phe Asp Lys Leu 390 395 126 Lys His Leu Val Asp Glu Pro Gln Asn Leu Ile Asp Gln Asn Cys Asp 410 405 130 Gln Phe Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Leu Ile Val 420 425 134 Arg Tyr Thr Arg Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val Glu 440 138 Val Ser Arg Ser Leu Gly Lys Val Gly Thr Arg Cys Cys Thr Gly Pro 455 460 142 Glu Ser Glu Arg Met Pro Cys Thr Glu Asp Tyr Leu Ser Ile Leu Asn 470 475 146 Arg Leu Cys Val His Glu Lys Thr Pro Val Ser Glu Lys Val Thr Lys 485 490 150 Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu 505 500 154 Thr Asp Glu Thr Tyr Val Pro Lys Ala Phe Asp Glu Lys Leu Phe Thr 520 515 525 158 Phe His Ala Asp Ile Cys Thr Leu Pro Asp Thr Glu Lys Gln Ile Lys 535 162 Lys Gln Thr Ala Leu Val Glu Leu Lys His Lys Pro Lys Ala Thr 550 555 166 Glu Glu Gln Leu Lys Thr Val Met Glu Asn Phe Val Ala Phe Val Asp 570 170 Lys Cys Cys Ala Ala Asp Asp Lys Glu Ala Cys Phe Ala Val Glu Gly 174 Pro Lys Leu Val Val Ser Thr Gln Thr Ala Leu Ala

DATE: 04/02/2002

TIME: 13:47:22

Input Set : A:\EP.txt Output Set: N:\CRF3\04022002\J045170A.raw 600 595 175 178 <210> SEQ ID NO: 2 179 <211> LENGTH: 23 180 <212> TYPE: PRT 181 <213> ORGANISM: Peptide from Lysozyme 183 <400> SEQUENCE: 2 185 Asn Leu Cys Asn Ile Pro Cys Ser Ala Leu Leu Ser Ser Asp Ile Thr 5 189 Ala Ser Val Asn Cys Ala Lys 20 190 193 <210> SEQ ID NO: 3 194 <211> LENGTH: 7 195 <212> TYPE: PRT 196 <213> ORGANISM: Peptide from alpha-lactoalbumin 198 <400> SEQUENCE: 3 200 Lys Cys Glu Val Phe Arg Glu 201 1 204 <210> SEQ ID NO: 4 205 <211> LENGTH: 25 206 <212> TYPE: PRT 207 <213> ORGANISM: Peptide from beta-lactoglobulin 209 <400> SEQUENCE: 4 211 Lys Tyr Leu Leu Phe Cys Met Glu Asn Ser Ala Glu Pro Glu Gln Ser 10 5 215 Leu Val Cys Gln Cys Leu Val Arg Thr 20 219 <210> SEQ ID NO: 5 220 <211> LENGTH: 15 221 <212> TYPE: PRT 222 <213> ORGANISM: Peptide from beta-lactoglobulin 224 <400> SEQUENCE: 5 226 Arg Leu Ser Phe Asn Pro Thr Gln Leu Glu Gln Cys His Ile 15 10 227 1 5 230 <210> SEQ ID NO: 6 231 <211> LENGTH: 12 232 <212> TYPE: PRT 233 <213> ORGANISM: Peptide from Catalase 235 <400> SEQUENCE: 6 237 Arg Leu Cys Glu Asn Ile Ala Gly His Leu Lys Asp 10 238 1 241 <210> SEQ ID NO: 7 242 <211> LENGTH: 17 243 <212> TYPE: PRT 244 <213> ORGANISM: Protein from catalase 246 <400> SEQUENCE: 7 248 Arg Leu Gly Pro Asn Tyr Leu Gln Ile Pro Val Asn Cys Pro Tyr Arg 10 249 1 252 Ala 256 <210> SEQ ID NO: 8

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/045,170A

DATE: 04/02/2002

PATENT APPLICATION: US/10/045,170A TIME: 13:47:22 Input Set : A:\EP.txt Output Set: N:\CRF3\04022002\J045170A.raw 257 <211> LENGTH: 10 258 <212> TYPE: PRT 259 <213> ORGANISM: Protein from lysozyme 261 <400> SEQUENCE: 8 263 Arg Cys Glu Leu Ala Ala Ala Met Lys Arg 264 1 267 <210> SEQ ID NO: 9 268 <211> LENGTH: 12 269 <212> TYPE: PRT 270 <213> ORGANISM: Protein from ovalbumin 272 <400> SEQUENCE: 9 274 Ala Ser Met Glu Phe Cys Phe Asp Val Phe Lys Glu 278 <210> SEQ ID NO: 10 279 <211> LENGTH: 12 280 <212> TYPE: PRT 281 <213> ORGANISM: Peptide from ovalbumin 283 <400> SEQUENCE: 10 285 Arg Ala Asp His Pro Phe Leu Phe Cys Ile Lys His 286 1 289 <210> SEQ ID NO: 11 290 <211> LENGTH: 14 291 <212> TYPE: PRT 292 <213> ORGANISM: Peptide from ovalbumin 294 <400> SEQUENCE: 11 296 Arg Tyr Pro Ile Leu Pro Glu Tyr Leu Gln Cys Val Lys Glu 5 10 300 <210> SEQ ID NO: 12 301 <211> LENGTH: 21 302 <212> TYPE: PRT 303 <213> ORGANISM: Peptide from ribonuclease 305 <400> SEQUENCE: 12 307 Lys His Ile Ile Val Ala Cys Glu Gly Asn Pro Tyr Val Pro Val His 308 1 5 311 Phe Asp Ala Ser Val 312 20 315 <210> SEQ ID NO: 13 316 <211> LENGTH: 24 317 <212> TYPE: PRT 318 <213> ORGANISM: Peptide from ribonuclease 320 <400> SEQUENCE: 13 322 Arg Cys Lys Pro Val Asn Thr Phe Val His Glu Ser Leu Ala Asp Val 10 326 Gln Ala Val Cys Ser Gln Lys Asn 327 330 <210> SEQ ID NO: 14 331 <211> LENGTH: 11 332 <212> TYPE: PRT 333 <213> ORGANISM: Ppetide from ribonuclease

RAW SEQUENCE LISTING

DATE: 04/02/2002 RAW SEQUENCE LISTING PATENT APPLICATION: US/10/045,170A TIME: 13:47:22

Input Set : A:\EP.txt

Output Set: N:\CRF3\04022002\J045170A.raw

```
335 <400> SEQUENCE: 14
337 Tyr Ser Thr Met Ser Ile Thr Asp Cys Arg Glu
                                        10
341 <210> SEQ ID NO: 15
342 <211> LENGTH: 15
343 <212> TYPE: PRT
344 <213> ORGANISM: Peptide from trypsinogen
346 <400> SEQUENCE: 15
348 Lys Cys Leu Lys Ala Pro Ile Leu Ser Asp Ser Ser Cys Lys Ser
                                        10
349 1
352 <210> SEQ ID NO: 16
353 <211> LENGTH: 18
354 <212> TYPE: PRT
355 <213> ORGANISM: Peptide from trypsinogen
357 <400> SEQUENCE: 16
359 Lys Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Val Val Cys Ser Gly
                                         10
360 1
363 Lys Leu
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/045,170A

DATE: 04/02/2002 TIME: 13:47:23

Input Set : A:\EP.txt

Output Set: N:\CRF3\04022002\J045170A.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date